10/541997

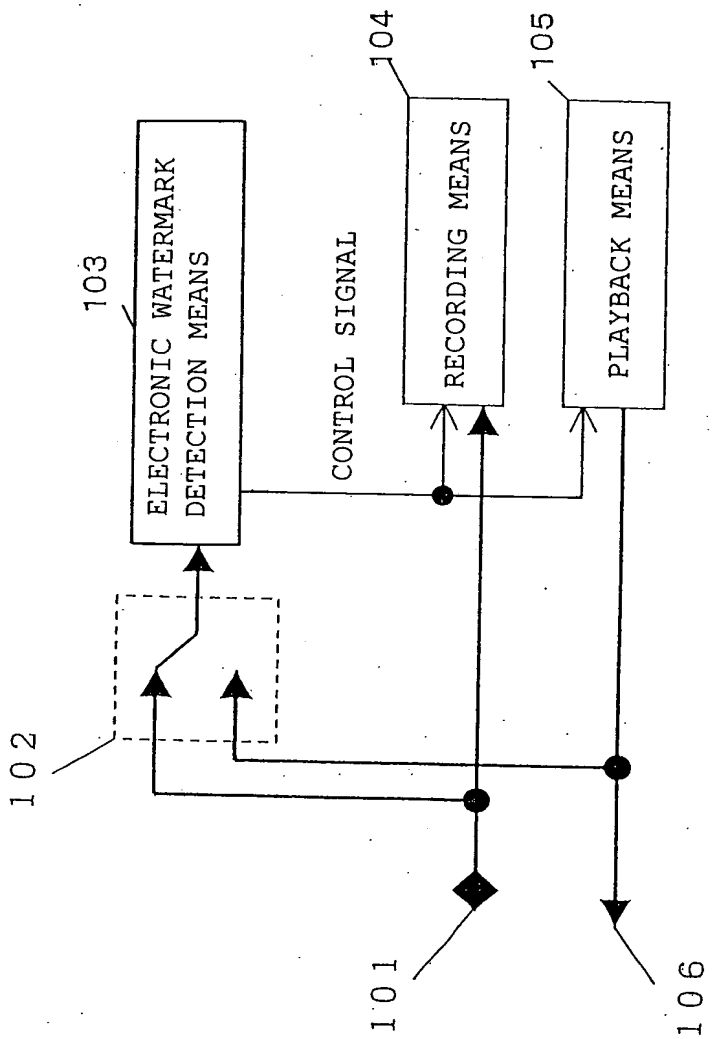
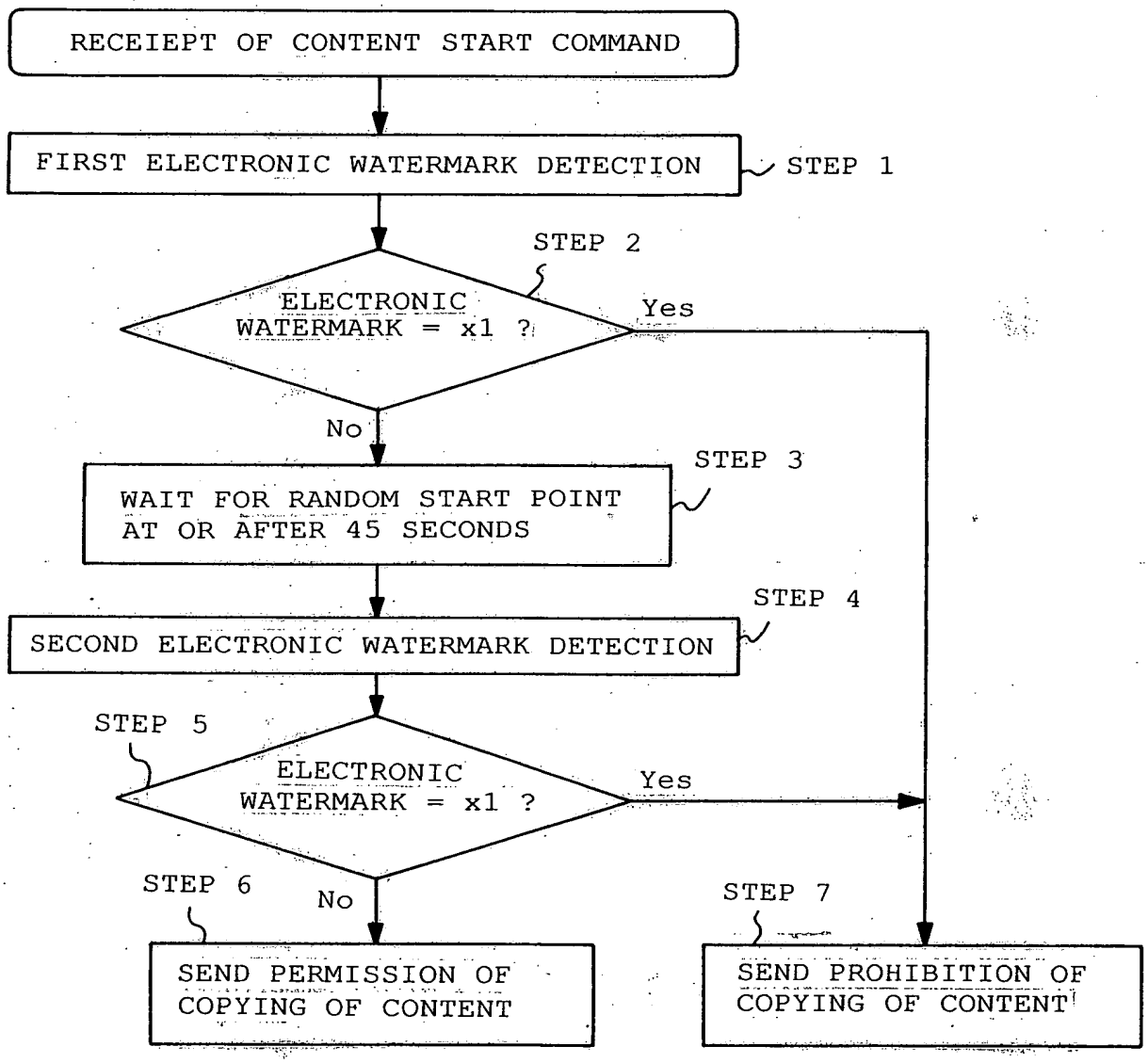


Fig.1

Best Available Copy

Fig.2


RECEIEPT OF CONTENT START COMMAND
FIRST ELECTRONIC WATERMARK DETECTION
STEP 1
STEP 2
ELECTRONIC WATERMARK = x1 ?
Yes
No
STEP 3
WAIT FOR RANDOM START POINT AT OR AFTER 45 SECONDS
STEP 4
SECOND ELECTRONIC WATERMARK DETECTION
STEP 5
ELECTRONIC WATERMARK = x1 ?
Yes
STEP 6
No
STEP 7
SEND PERMISSION OF COPYING OF CONTENT
SEND PROHIBITION OF COPYING OF CONTENT

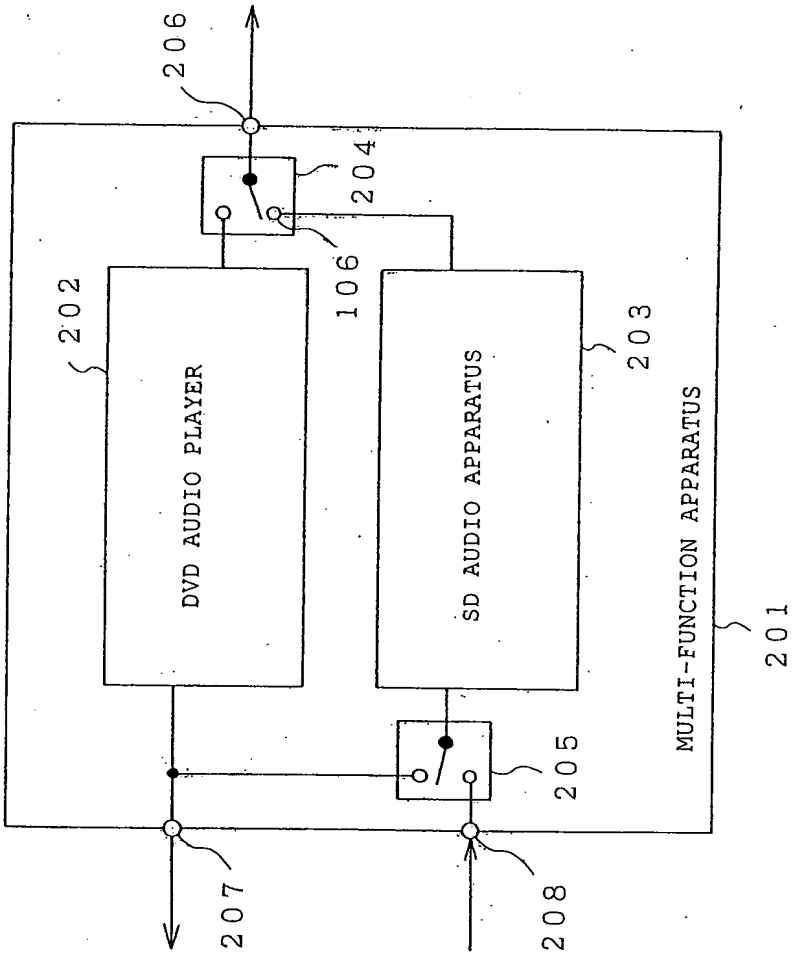

206
204
106
202
DVD AUDIO PLAYER
SD AUDIO APPARATUS
203
201
MULTI-FUNCTION APPARATUS
205
207
208

Fig.3

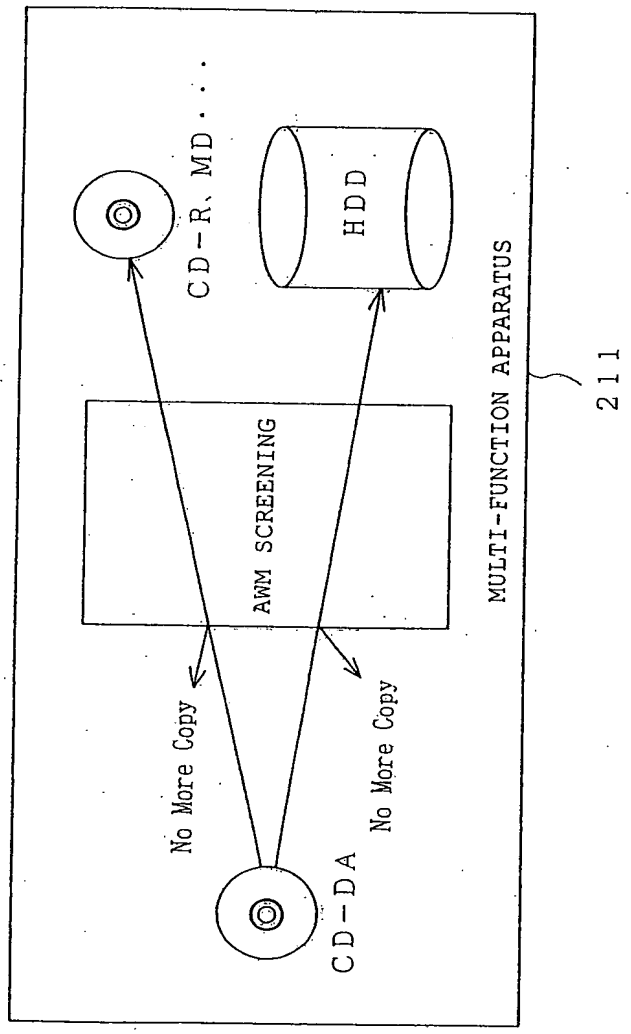

MULTI-FUNCTION APPARATUS
211
CD-R, MD . . .
HDD
AWM SCREENING
No More Copy
No More Copy
CD-DA

Fig.4

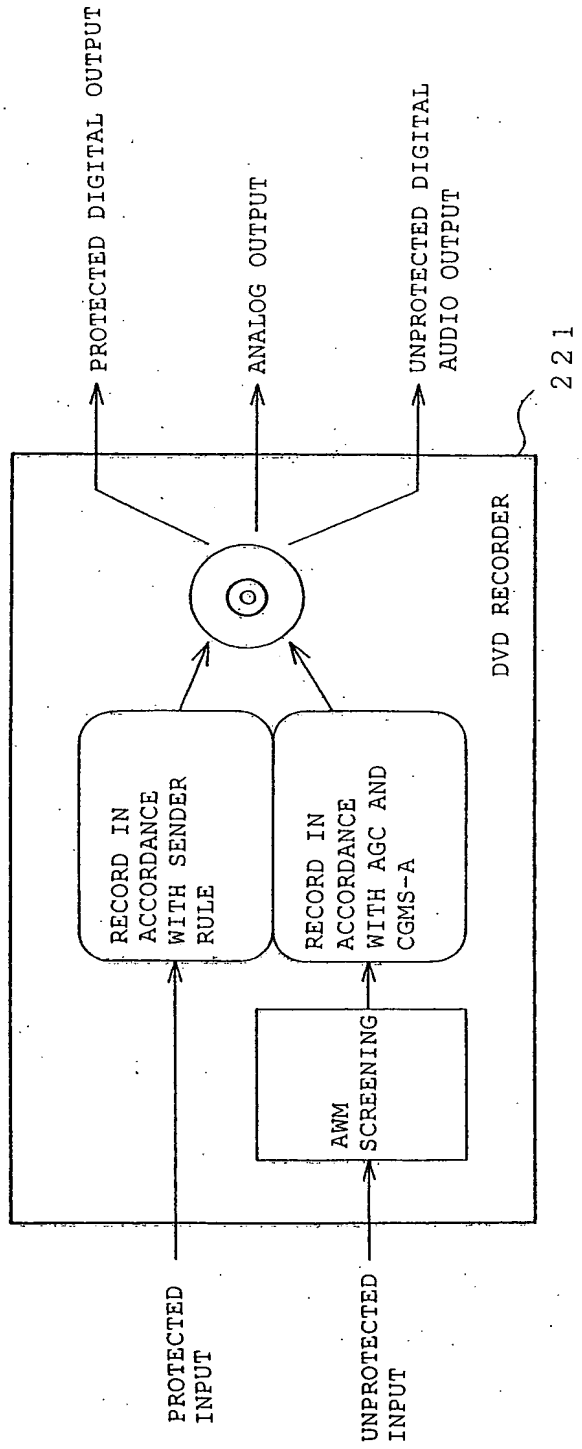

PROTECTED DIGITAL OUTPUT
ANALOG OUTPUT
UNPROTECTED DIGITAL AUDIO OUTPUT
221
DVD RECORDER
RECORD IN ACCORDANCE WITH SENDER RULE
RECORD IN ACCORDANCE WITH AGC AND CGMS-A
AWM SCREENING
PROTECTED INPUT
UNPROTECTED INPUT

Fig.5

Fig.6

DETECTION MODE	"NO_MORE_COPY" ONLY				ALL			
EMBEDDED ELECTRONIC WATERMARK	NONE	COPY_FREELY	COPY_ONE_ GENERATION	NO_MORE_ COPY	NONE	COPY_FREELY	COPY_ONE_ GENERATION	NO_MORE_ COPY
FIRST DETECTION RESULT	NO DETECTION	NO DETECTION	NO DETECTION	NO_MORE_ COPY	NO DETECTION	COPY_FREELY	COPY_ONE_ GENERATION	NO_MORE_ COPY
SECOND DETECTION RESULT	NO DETECTION	NO DETECTION	NO DETECTION	NO EXECUTION	NO DETECTION	NO EXECUTION	NO EXECUTION	NO EXECUTION
WHETHER TO PERMIT COPYING	YES	YES	YES	NO	YES	YES	YES	NO

Kenji Muraki, et al.
RECORDING APPARATUS, RECORDING METHOD, RECORDING MEDIUM AND PROGRAM
MTS-3564US Customer No. 52473

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Fig.7 PRIOR ART

COPY CONTROL CONDITION	DIGITAL CC1 STATUS		PLAYER PLAYBACK CONTROL	WATERMARK CC1 STATUS		PLAYER PLAYBACK CONTROL
	C4	C3		C4	C3	
COPY FREE	0	0	RESTRICTED PLAYBACK	0	0	NORMAL PLAYBACK
RESTRICTED COPYING	1	0	NORMAL PLAYBACK	1	0	RESTRICTED PLAYBACK
COPY PROHIBITED	1	1	NORMAL PLAYBACK	1	1	RESTRICTED PLAYBACK

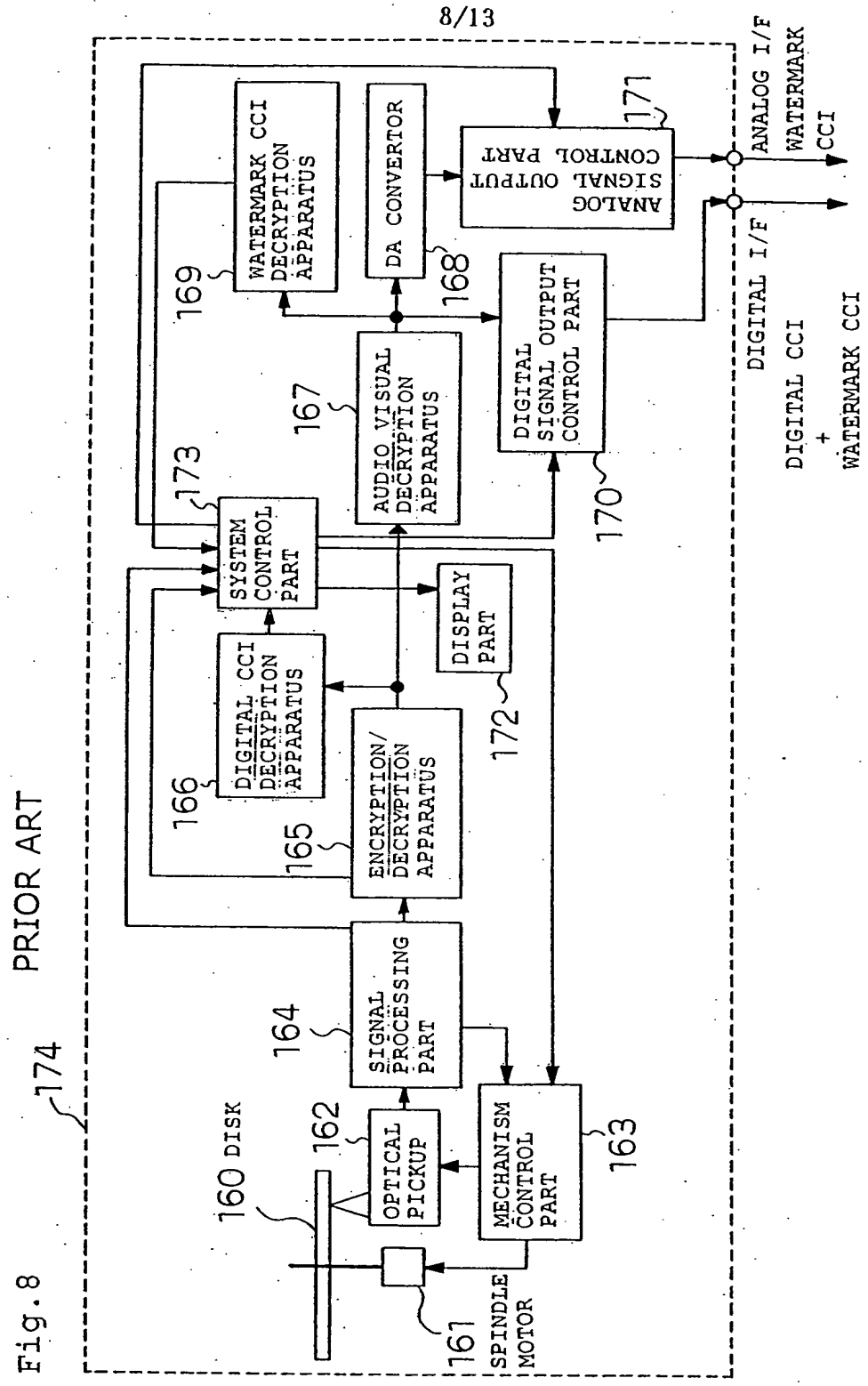
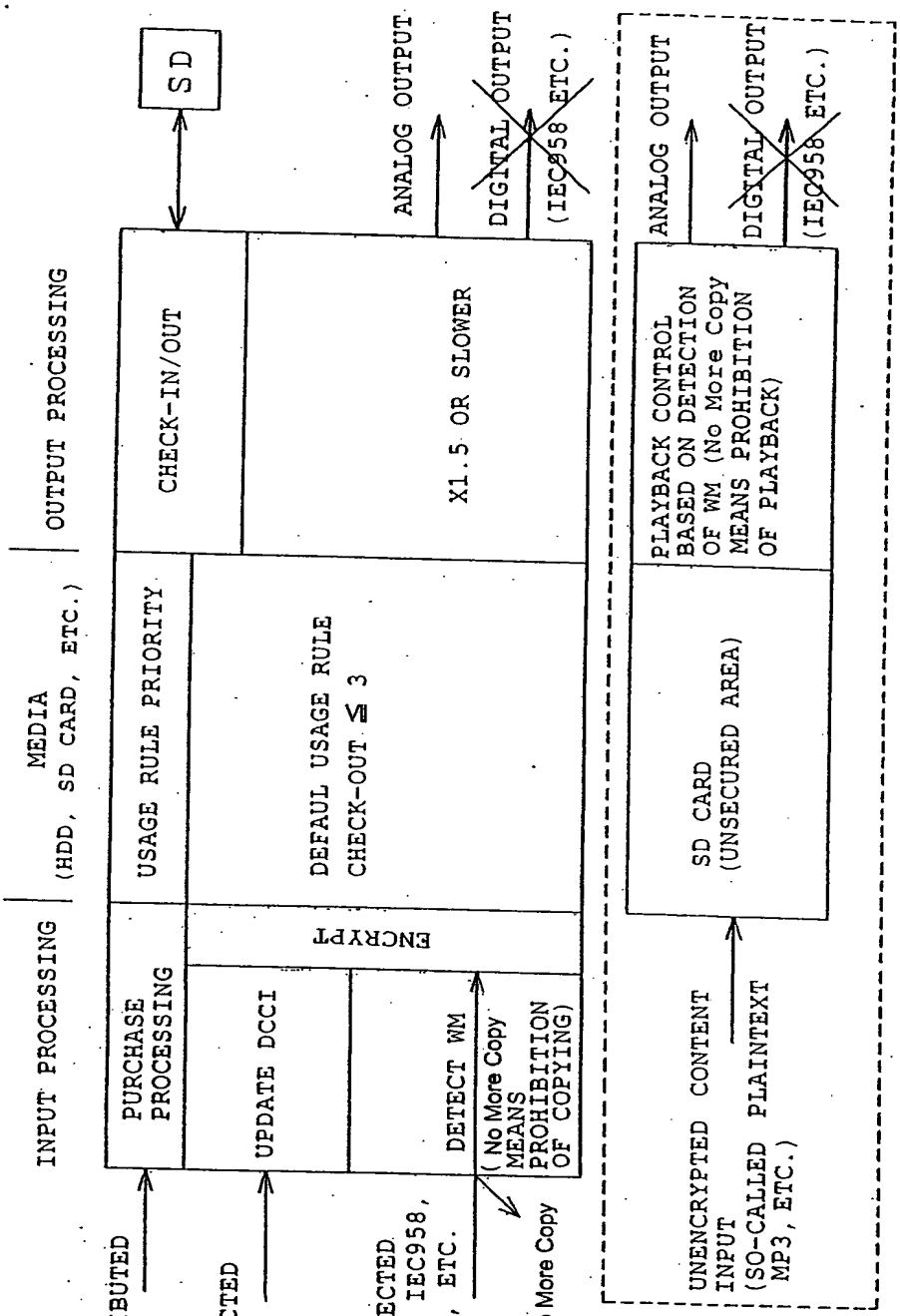

PRIOR ART
174
160 DISK
162
OPTICAL PICKUP
164
SIGNAL PROCESSING PART
165
ENCRYPTION/ DECRYPTION APPARATUS
166
DIGITAL CCI DECRYPTION APPARATUS
172
DISPLAY PART
173
SYSTEM CONTROL PART
167
AUDIO VISUAL DECRYPTION APPARATUS
169
WATERMARK CCI DECRYPTION APPARATUS
168
DA CONVERTOR
171
ANALOG SIGNAL OUTPUT CONTROL PART
170
DIGITAL SIGNAL OUTPUT CONTROL PART
163
MECHANISM CONTROL PART
161
SPINDLE MOTOR
ANALOG I/F
WATERMARK CCI
DIGITAL I/F
DIGITAL CCI + WATERMARK CCI

Fig. 8

PRIOR ART

Fig.10



PRIOR ART

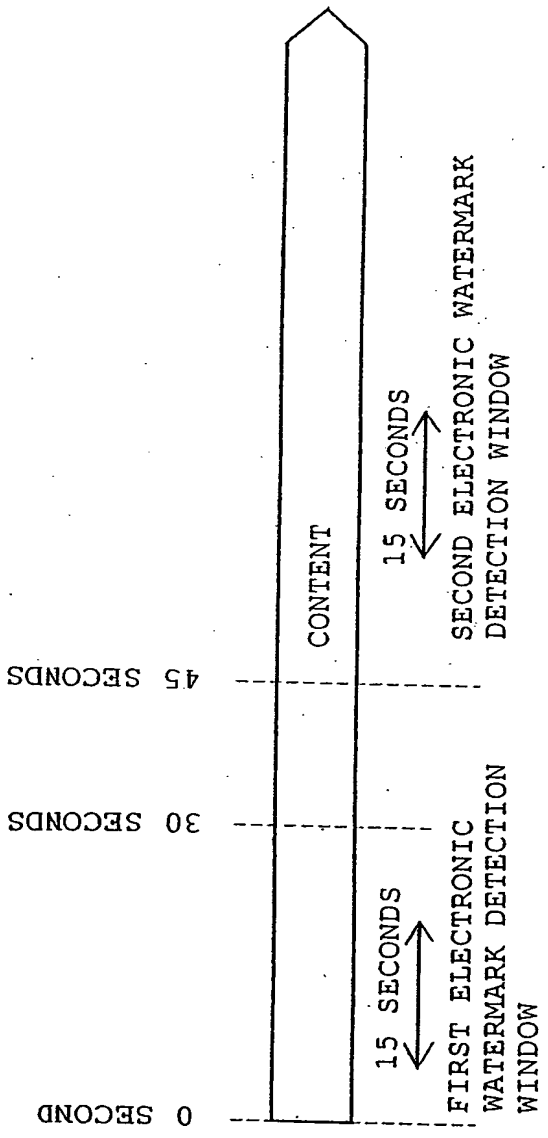
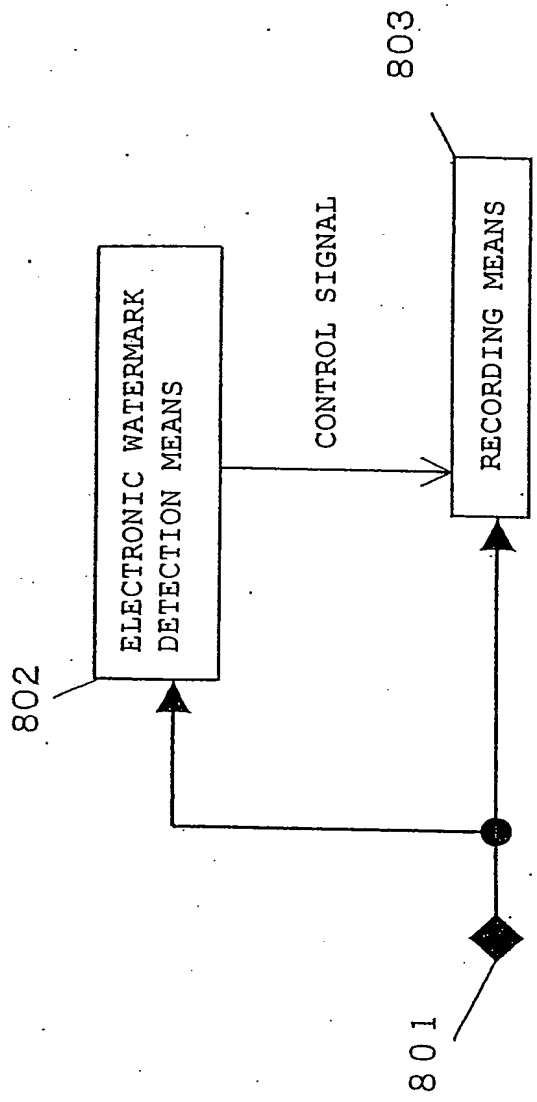


Fig.11



PRIOR ART

Fig.12

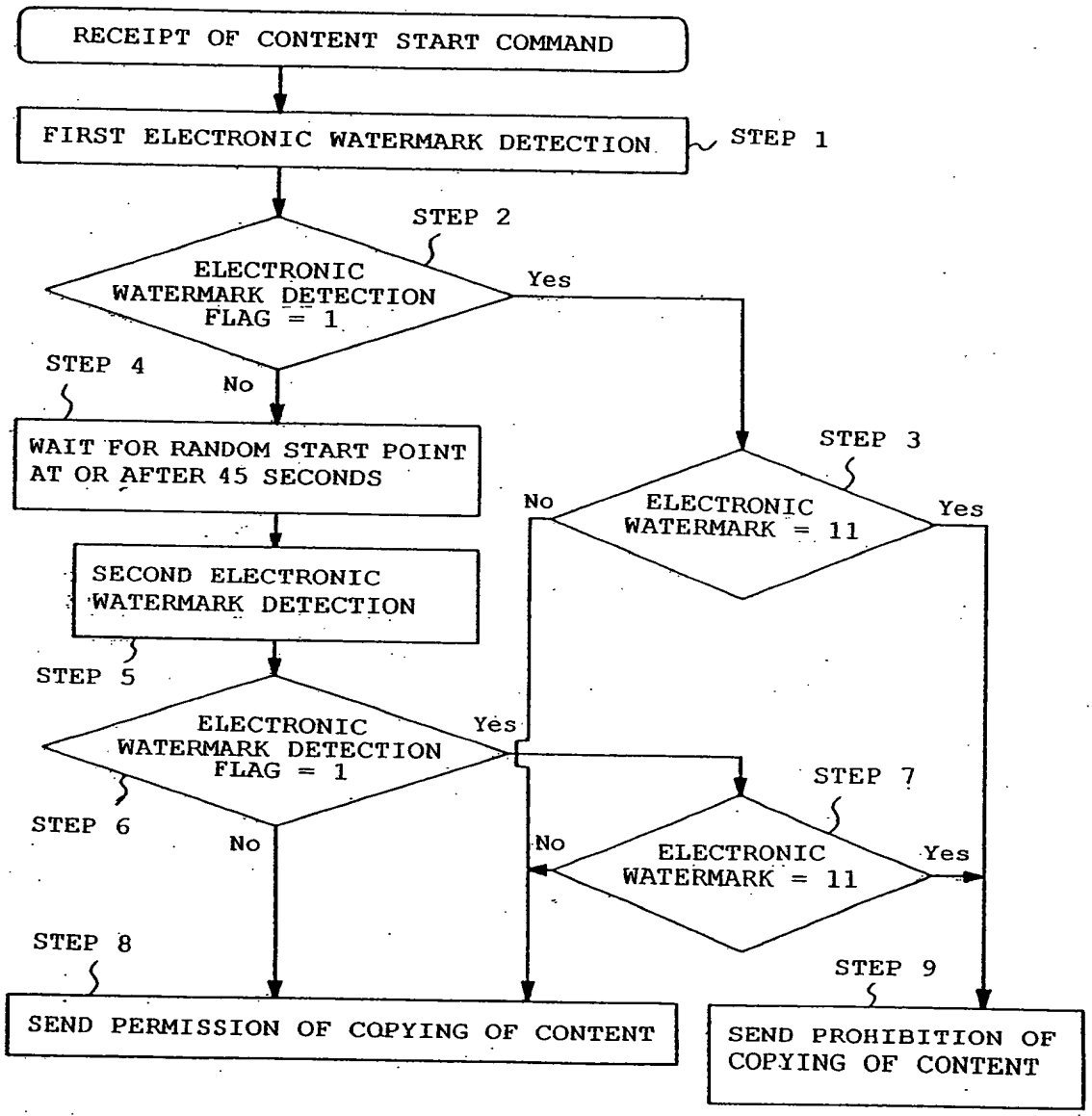



Fig.13 PRIOR ART